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WPI Acc No: 84-214249/198435

XRPX Acc No: N84-160414

Drill with replaceable cutting bit - has projection on bit and complementary seat in shank to allow fitting by insertion and rotation only

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Number of Countries: 009 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 3306209	A	19840823	DE 3306209	A	19830223		198435 B
WO 8403241	A	19840830	WO 84EP43	A	19840221		198436
→ EP 118806	A	19840919	EP 84101764	A	19840221		198438
DE 3306209	C	19850228					198510
EP 118806	B	19871125					198747
DE 3467727	G	19880107					198802

Priority Applications (No Type Date): DE 3306209 A 19830223

Cited Patents: EP 8972; GB 17961; GB 2083767; GB 550306; US 3102442; US 4160616; US 4180616

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
DE 3306209	A		19			

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Designated States (National): JP US

EP 118806 A G

Designated States (Regional): AT CH DE FR GB IT LI

EP 118806 B G

Designated States (Regional): AT CH DE FR GB IT LI

Abstract (Basic): EP 118806 A

Drilling tool, comprising a tool shank (12) with at least one flute (13) and an interchangeable cutting attachment (1), in which on the shank tip there is a recess for receiving the cutting attachment (1) in the wall of the flute, which is bounded by an edge (15) on the shank side and against which engages the shank-side narrow side of the cutting attachment and the cutting attachment (1) is provided on its shankside narrow side with a fixing pin (5) concentric to the drill axis (2) and having lateral contact faces (11) and in the shank tip is provided a receptacle (16) for fixing pin (5) concentric to drill axis (2) and contact faces (17) corresponding to the contact faces (11) of fixing pin (5), characterized in that the wall of receptacle (16) for fixing pin (5) is laterally cut by the flute and the fixing pin (5) has two contact faces (11) undercut in the pin circumference and the cutting attachment can be inserted in the recess by rotation counter to the drill rotation direction A. (19pp)

DE 3306209 A

The drill comprises a replaceable cutting bit which fits in a seat (14,15) in the wall(s) of the swarf groove(s) (13). The bit portion facing the drill shank (12) has a dovetail shaped projection concentric with the drill arm (2), which has two contact faces in the form of cone segments and can be fitted in the seat by rotation against drill rotation.

The seat has a complementary recess (16) for this projection with cone segment-shaped faces (17) for the faces (11). Seating face(s) (15) are provided for the narrow lower edge(s) of the bit.

ADVANTAGE - Bit can be fitted in seat of shank without need for an additional fixing element.

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Abstract (Equivalent): EP 118806 B

Drilling tool, comprising a tool shank (12) with at least one flute (13) and an interchangeable cutting attachment (1), in which on the shank tip there is a recess for receiving the cutting attachment (1) in the wall of the flute, which is bounded by an edge (15) on the shank side and against which engages the shank-side narrow side of the cutting attachment and the cutting attachment (1) is provided on its shankside narrow side with a fixing pin (5) concentric to the drill axis (2) and having lateral contact faces (11) and in the shank tip is provided a receptacle (16) for fixing pin (5) concentric to drill axis (2) and contact faces (17) corresponding to the contact faces (11) of fixing pin (5), characterized in that the wall of receptacle (16) for fixing pin (5) is laterally cut by the flute and the fixing pin (5) has two contact faces (11) undercut in the pin circumference and the cutting attachment can be inserted in the recess by rotation counter to the drill rotation direction A. (19pp)

Title Terms: DRILL; REPLACE; CUT; BIT; PROJECT; BIT; COMPLEMENTARY; SEAT; SHANK; ALLOW; FIT; INSERT; ROTATING

Derwent Class: P54

International Patent Class (Additional): B23B-051/00

File Segment: EngPI

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